

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
( Not for submission under 37 CFR 1.99)

Application Number	10550326
Filing Date	2007-01-09
First Named Inventor	Roger Chamberlain
Art Unit	2431
Examiner Name	To be assigned
Attorney Docket Number	53047-57365

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	1	RE36946		2000-11-07	Diffie et al.	
	2	5249292		1993-09-28	Chiappa	
	3	5371794		1994-12-06	Diffie et al.	
	4	5461712		1995-10-24	Chelstowski et al.	
	5	5481735		1996-01-02	Mortensen et al.	
	6	5701464		1997-12-23	Aucsmith	
	7	5805832		1998-09-08	Brown et al.	
	8	5813000		1998-09-22	Furlani	

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	9	5991881		1999-11-23	Conklin et al.	
	10	6023760		2000-02-08	Karttunen	
	11	6028939		2000-02-22	Yin	
	12	6044407		2000-03-28	Jones et al.	
	13	6067569		2000-05-23	Khaki et al.	
	14	6073160		2000-06-06	Grantham et al.	
	15	6105067		2000-08-15	Batra	
	16	6134551		2000-10-17	Aucsmith	
	17	6147976		2000-11-14	Shand et al.	
	18	6169969		2001-01-02	Cohen	
	19	6226676		2001-05-01	Crump et al.	

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	20	6279113		2001-08-21	Vaidya	
	21	6317795		2001-11-13	Malkin et al.	
	22	6377942		2002-04-23	Hinsley et al.	
	23	6397259		2002-05-28	Lincke et al.	
	24	6397335		2002-05-28	Franczek et al.	
	25	6412000		2002-06-25	Riddle et al.	
	26	6430272		2002-08-06	Maruyama et al.	
	27	6463474		2002-10-08	Fuh et al.	
	28	6499107		2002-12-24	Gleichauf et al.	
	29	6578147		2003-06-10	Shanklin et al.	

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	1	20010056547		2001-12-27	Dixon	
	2	20020105911		2002-08-08	Pruthi et al.	
	3	20020129140		2002-09-12	Peled et al.	
	4	20020162025		2002-10-31	Sutton et al.	
	5	20020166063		2002-11-07	Lachman et al.	
	6	20030009693		2003-01-09	Brock et al.	
	7	20030014662		2003-01-16	Gupta et al.	
	8	20030023876		2003-01-30	Bardsley et al.	
	9	20030043805		2003-03-06	Graham et al.	
	10	20030051043		2003-03-13	Wyschogrod et al.	

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	11	20030065943		2003-04-03	Geis et al.	
	12	20030074582		2003-04-17	Patel et al.	
	13	20030110229		2003-06-12	Kulig et al.	
	14	20030177253		2003-09-18	Schuehler et al.	
	15	20030221013		2003-11-27	Lockwood et al.	
	16	20040028047		2004-02-12	Hou et al.	
	17	20040049596		2004-03-11	Schuehler et al.	
	18	20040205149		2004-10-14	Dillon et al.	
	19	20050086520		2005-04-21	Dharmapurikar et al.	
	20	20050195832		2005-09-08	Dharmapurikar et al.	
	21	20060053295		2006-03-09	Madhusudan et al.	

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	1	2001080558	WO		2001-10-25	Solidstreaming, Inc.		<input checked="" type="checkbox"/>
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	3	2003036845	WO		2003-05-01	Global Velocity, L.L.C.		<input type="checkbox"/>
	4	2003100650	WO		2003-04-12	Washington University		<input type="checkbox"/>
	5	2004017604	WO		2004-02-26	Washington University In St. Louis		<input type="checkbox"/>
	6	2005017708	WO		2005-02-24	Washington University		<input type="checkbox"/>
	7	2006023948	WO		2006-03-02	Washington University		<input type="checkbox"/>

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	1	"RFC793: Transmission Control Protocol, Darpa Internet Program, Protocol Specification", September 1981	<input type="checkbox"/>
	2	ANEROUSIS et al., "Using the AT&T Labs PacketScope for Internet Measurement, Design, and Performance Analysis", Network and Distributed Systems Research Laboratory, AT&T Labs-Research, Florham Park, NJ, October 1997	<input type="checkbox"/>
	3	ARTAN et al., "Multi-packet Signature Detection using Prefix Bloom Filters", 2005, IEEE, pages 1811-1816	<input type="checkbox"/>
	4	BABOESCU et al., "Scalable Packet Classification"	<input type="checkbox"/>
	5	BLOOM, "Space/Time Trade-offs in Hash Coding With Allowable Errors", Communications of the ACM, July 1970, pp. 422-426, Volume 13, No. 7, Computer Usage Company, Newton Upper Falls, Massachusetts, USA	<input type="checkbox"/>
	6	CHANAY et al., "Design of a Gigabit ATM Switch", Washington University, St. Louis	<input type="checkbox"/>
	7	CUPPU and JACOB, "Organizational Design Trade-Offs at the DRAM, Memory Bus and Memory Controller Level: Initial Results," Technical Report UMB-SCA-1999-2, Univ. of Maryland Systems & Computer Architecture Group, Nov. 1999, pp 1 - 10.	<input type="checkbox"/>
	8	DHARMAPURIKAR et al., "Deep Packet Inspection Using Parallel Bloom Filters," Symposium on High Performance Interconnects (HotI), Stanford, California, 2003, pp. 44-51	<input type="checkbox"/>
	9	DHARMAPURIKAR et al., "Longest Prefix Matching Using Bloom Filters," SIGCOMM, 2003, pp. 201-212.	<input type="checkbox"/>
	10	DHARMAPURIKAR et al., "Robust TCP Stream Reassembly in the Presence of Adversaries", Proc. of the 14th Conference on USENIX Security Symposium - Vol. 14, 16 pages, Baltimore, MD, 2005; <a href="http://www.icir.org/vern/papers/TcpReassembly/TCPReassembly.pdf">http://www.icir.org/vern/papers/TcpReassembly/TCPReassembly.pdf</a>	<input type="checkbox"/>
	11	FELDMANN, "BLT: Bi-Layer Tracing of HTTP and TCP/IP", AT&T Labs-Research, Florham Park, NJ, USA	<input type="checkbox"/>

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	12	GUPTA et al., "Packet Classification on Multiple Fields", Computer Systems Laboratory, Stanford University, Stanford, CA	<input type="checkbox"/>
	13	GURTOV, "Effect of Delays on TCP Performance", Cellular Systems Development, Sonera Corporation	<input type="checkbox"/>
	14	International Search Report for PCT/US2002/033286; January 22, 2003	<input type="checkbox"/>
	15	International Search Report for PCT/US2005/030046; September 25, 2006	<input type="checkbox"/>
	16	JACOBSON et al., "RFC 1072: TCP Extensions for Long-Delay Paths", October 1988	<input type="checkbox"/>
	17	JACOBSON et al., "tcpdump - dump traffic on a network"	<input type="checkbox"/>
	18	JOHNSON et al., "Pattern Matching in Reconfigurable Logic for Packet Classification", College of Computing, Georgia Institute of Technology, Atlanta, GA	<input type="checkbox"/>
	19	MADHUSUDAN, "Design of a System for Real-Time Worm Detection", Hot Interconnects, pp. 77-83, Stanford, CA, August 2004, found at <a href="http://www.hoti.org/hoti12/program/papers/2004/paper4.2.pdf">http://www.hoti.org/hoti12/program/papers/2004/paper4.2.pdf</a>	<input type="checkbox"/>
	20	MADHUSUDAN, "Design of a System for Real-Time Worm Detection", Master's Thesis, Washington Univ., Dept. of Computer Science and Engineering, St. Louis, MO, August 2004	<input type="checkbox"/>
	21	MADHUSUDAN, "Design of a System for Real-Time Worm Detection", Power Point Presentation in Support of Master's Thesis, Washington Univ., Dept. of Computer Science and Engineering, St. Louis, MO, August 2004	<input type="checkbox"/>
	22	MAO et al., "Cluster-based Online Monitoring System of Web Traffic", Dept. of Computer Science and Technology, Tsinghua Univ., Beijing, 100084 P.R. China	<input type="checkbox"/>

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	23	MOSCOLA et al., "FPSed: A Streaming Content Search-And-Replace Module for an Internet Firewall", Proc. of Hot Interconnects, 11th Symposium on High Performance Interconnects, pp. 122-129, August 20, 2003	<input type="checkbox"/>
	24	MOSCOLA, "FPGrep and FPSed: Packet Payload Processors for Managing the Flow of Digital Content on Local Area Networks and the Internet", Master's Thesis, Sevier Institute of Technology, Washington University, St. Louis, MO, August 2003	<input type="checkbox"/>
	25	NECKER et al., "TCP-Stream Reassembly and State Tracking in Hardware", School of Electrical and Computer Engineering, Georgia Institute of Technology, Atlanta, GA	<input type="checkbox"/>
	26	PRAKASH et al., "OC-3072 Packet Classification Using BDDs and Pipelined SRAMs", Department of Electrical and Computer Engineering, The University of Texas at Austin	<input type="checkbox"/>
	27	ROBERTS, "Internet Still Growing Dramatically Says Internet Founder", Press Release, Caspian Networks, Inc. - Virtual Pressroom	<input type="checkbox"/>
	28	SCHUEHLER et al., "Architecture for a Hardware Based, TCP/IP Content Scanning System", IEEE Micro, 24(1):62-69, Jan-Feb. 2004, USA	<input type="checkbox"/>
	29	SCHUEHLER et al., "TCP-Splitter: A TCP/IP Flow Monitor in Reconfigurable Hardware", Hot Interconnects 10 (HotI-10), Stanford, CA, Aug. 21-23, 2002, pp. 127-131	<input type="checkbox"/>
	30	SHALUNOV et al., "Bulk TCP Use and Performance on Internet 2"	<input type="checkbox"/>
	31	SINGH et al., "The EarlyBird System for Real-Time Detection on Unknown Worms", Technical report CS2003-0761, August 2003	<input type="checkbox"/>
	32	TAYLOR et al., "Dynamic Hardware Plugins (DHP): Exploiting Reconfigurable Hardware for High-Performance Programmable Routers", Computer Networks, 38(3): 295-310 (16), 21 February 2002, and online at <a href="http://www.cc.gatech.edu/classes/AY2007/cs8803hpc_fall/papers/phplugins.pdf">http://www.cc.gatech.edu/classes/AY2007/cs8803hpc_fall/papers/phplugins.pdf</a>	<input type="checkbox"/>
	33	WALDVOGEL et al., "Scalable High-Speed Prefix Matching"	<input type="checkbox"/>

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	34	WEAVER et al., "Very Fast Containment of Scanning Worms", Proc. USENIX Security Symposium 2004, San Diego, CA, August 2004, located at <a href="http://www.icsi.berkeley.edu/~nweaver/containment/containment.pdf">http://www.icsi.berkeley.edu/~nweaver/containment/containment.pdf</a>	<input type="checkbox"/>
	35	WOOSTER et al., "HTTPDUMP Network HTTP Packet Snooper", April 25, 1996	<input type="checkbox"/>
	36	YAN et al., "Enhancing Collaborative Spam Detection with Bloom Filters", 2006, IEEE, pages 414-425	<input type="checkbox"/>

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